

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. SF 078109
2. Name of Operator BHP Petroleum (Americas) Inc.	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. 5847 San Felipe, Suite 3600, Houston, Texas 77057	7. If Unit or CA, Agreement Designation Gallegos Canyon Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) NW/SE Section 26-T29N-R12W 1530' FSL & 1715' FEL	8. Well Name and No. Gallegos Canyon Unit 512
	9. API Well No. 30-045-28221
	10. Field and Pool, or Exploratory Area W. Kutz Pictured Cliffs
	11. County or Parish, State San Juan, NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other Completion History	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

The daily history of the completion operations and deviation surveys at the subject well are attached.

RECEIVED

MAY 17 1991

OIL CON. DIV.  
DIST. 3

ACCEPTED FOR RECORD

MAY 18 1991

FARMINGTON REGIONAL OFFICE  
BY *[Signature]*

14. I hereby certify that the foregoing is true and correct

Signed <i>[Signature]</i> Beverly Comer	Title Production Technician	Date 4/18/91
(This space for Federal or State office use)		
Approved by _____	Title _____	Date _____
Conditions of approval, if any:		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

NMOOD

BHP PETROLEUM (AMERICAS), INC.  
GALLEGOS CANYON UNIT NO. 512  
SEC. 26-T29N-R12W (NW/SE)  
KUTZ PICTURED CLIFFS  
SAN JUAN COUNTY, NEW MEXICO

WELL COMPLETION HISTORY

**01/02/91-** MIRU, spud well at 5:30 pm on 1/1/91. Drill 8-3/4" surface hole to 280' KB. Circ hole and LD DC. PU and ran 6 jts 7" 20# K-55 8R R-3 ST&C and set at 276' KB. RU Western and cement w/250 sxs Class "B" w/3% CaCl and 1/4# sx Cello Seal. Obtained full returns with 10 bbl cement circulated to surface. Plug dn at 5:30 am on 1/2/90. WO. Set extra surface csg to cover water flow. Bit No. 1 8-3/4" Smith RR Ser No 11265 in @ 10', out at 80'. Jets 1/32 3/12. Bit No. 2 in @ 80', out at 120'. Bit No. 3 8-3/4" SEC M4N7 Ser No 76631 in @ 120' out @ 280'. WOB all RPM 100 psi 600 SPM 60 MW 8.0 Vis 38 DCs 14-4 3/4. Drill 8 hrs, trip 1 hr, run csg & cmt 3 hrs, WOC 1-1/2 hrs. DMC: \$400 DC: \$15,300 TAC: \$15,300

**01/03/91-** Drlg 625' (345') WOC. NU BOPE, test csg & blind rams to 2000 psi, pipe rams to 1500 psi and annular to 500 psi. Drill out cement and drill 6-1/4" hole to 625' with a gas kick at 480'. Bit No 4 6-1/4" Varel V517 Ser No 56642 in @ 280' Jets 1/32 2/14. WOB all RPM 80 psi 700 SPM 60 MW 8.4 Vis 28 PV/YP 5/2 WL 10 pH 9 Solids 3.5 DCs 14-4 3/4. Drill 7-1/4 hrs, lub rig 1/4 hr, repair rig 3-1/4 hrs, WOC 3-1/4 hrs, NU BOP/Test 8-1/2 hrs, drl cmt 1-1/2 hrs. DMC: \$400 CMC: \$800 DC: \$4,980 TAC: \$20,280

**01/04/91-** Drlg 1540' (915') Drill 6-1/4" hole to 1540' with one survey. Circulate and condition hole. Bit No. 4 6-1/4" Varel V517 Ser No 56642 in @ 280', out @ 1540'. Jets 1/32 2/14. WOB all RPM 80 psi 800 SPM 60 MW 9.4 Vis 53 PV/YP 28/32 WL 8 pH 10 Solids 8 Sand 4 DCs 14-4 3/4. Dev 3/4" @ 607'. Drill 18-3/4 hrs, lub rig 1/2 hr, repair rig 4-3/4 hrs. DMC: \$600 CMC: \$1,400 DC: \$10,400 TAC: \$30,680

**01/05/91-** TD: 1546' (6') Short trip circ and cond mud. POH RU HLS and ran SDL/DSN/DIGL/GR/Coal Log. Log TD 1541'. TIH & drill 6' circ & cond. POH LD DP & DC. RU & run 38 jts 4-1/2" 10.5# K-55 8R R-3 ST&C csg & land at 1542' KB. RU Western and cement w/lead 280 sxs 50/50 poz, 2% gel, 10% salt, 1/4# sx cello seal and tail w/25 sxs Class "B" w/1.2% CF-18 low fluid loss. Obtained full returns w/15 bbl cement circ to surface. Bump plug and float held. dn @ 3:00 am 1/5/91. ND BOPE & jet pits. Released rig @ 7:00 am on 1/5/91. WOCT. Bit No. 3 8-3/4" SEC M4N7 Ser No 76631 in @ 120' out @ 280'. Bit No. 4 6-1/4" Varel V517 Ser No 56642 in @ 280' out at 1546', Jets 1/32 2/14. WOB all RPM 80 psi 800 SPM 60 MW 10.2, Vis 65 PV/YP 21/18 Gels 8/25 WL 8.8 pH 9 FC/32 2 Solids 6 % Sand 1. Dev 1/2" @ 1545'. Drill 1 hr, cond & circ 3-1/2 hrs, trip 5-1/2 hrs, lub rig 1/4 hr, repair rig 2-1/2 hrs, WL logs 3-1/4 hrs, run csg & cmt 4 hrs, ND BOP & jet 4 hrs. DMC: \$500 CMC: \$1,900 DC: \$27,000 TAC: \$57,680.

**01/08/90-** TD: 1546' WOCT. CMC: \$1,900 TAC: \$57,680

**02/19/91-** TD: 1540' PBTB: 1509' Perfs 1406-1442' MIRU PU bit and csg scraper on 2-3/8" tbg and tally in hole. Tagged PBTB at 1509' KB. Circ hole w/2% KCL and additives. Pressure test csg and BOPE to 2500 psi. POOH w/tbg. RU Electric Line and ran GR/CCL logs.

Perf the Pictured Cliff from 1406' to 1442' w/3-1/8" premium charged 90° phased csg gun at 4 JSPF. No press to surface. RD Electric Line. All shots fired. MI set frac tank. Fill and heat. SDFN. DC: \$8,100 TACC: \$8,100 TAC \$65,780

02/19/91- TD: 1540' PBDT: 1509' Perfs 1406-1442' MIRU PU bit and csg scraper on 2-3/8" tbg and tally in hole. Tagged PBDT at 1509' KB. Circ hole w/2% KCL and additives. Pressure test csg and BOPE to 2500 psi. POOH w/tbg. RU Electric Line and ran GR/CCL logs. Perf the Pictured Cliff from 1406' to 1442' w/3-1/8" premium charged 90° phased csg gun at 4 JSPF. No press to surface. RD Electric Line. All shots fired. MI set frac tank. Fill and heat. SDFN. DC: \$8,100 TACC: \$8,100 TAC \$65,780

02/20/91- TD: 1540' PBDT: 1509' Perfs 1406-1442' 0 pressure on well. RU western. Frac stimulate Pictured Cliffs down 4 1/2" csg. w/15,960 gal. of 20# gel, 70 quality foam and 83,600# of 12/20 Brady Sand @ 25 bbl. per minute Max treating pers. 1270 psi, min. 1000 psi, avg 1100 psi. avg. rate 25 bpm. Max treating pers. 1270 psi, 5.0 ppg. ISIP 1,000 psi Bleed back to induce closure. 15 min. 740 psi 4 hr. SICP 695# Open well to frac tank on 3/8" pos. choke. DC: \$28,200 TACC: \$36,300 TAC \$93,980

02/21/91- TD: 1540' PBDT: 1509' Perfs 1406-1442' 17 hrs flowing on 3/8" pos choke. FCP 380 psi. Rec 200 bbls load, with an estimated gas rate of 500 MCF/D. MIRU. Kill well with 2% KCL and additives. TIH w/tbg. Tag sand at 1429', circ clean to PBDT. PU land tbg. w/45 jts 2-3/8" 4.7# 8RD J-55 EUE at 1463 KB w/SN at 1431 KB. ND BOPE. NU Well head, pump off expendable check. Attempt to swab well in, could not do so due to heavy amounts of sand. SI. Wait on N2 to clean out. TBLR 200 BLTR 179 Days 3 DC: \$2,900 TACC: \$39,200 TAC: \$96,880

02/22/91- TD: 1540' PBDT: 1509' Perfs 1406-1442' RU Western. Kick well off with N2. FTP 300 psi. Well to frac tank on a 3/8" pos choke. TBLR 200 BLTR 179 Days 4 DC: \$2,400 TACC: \$41,600 TAC: \$99,280 DROP FROM REPORT.